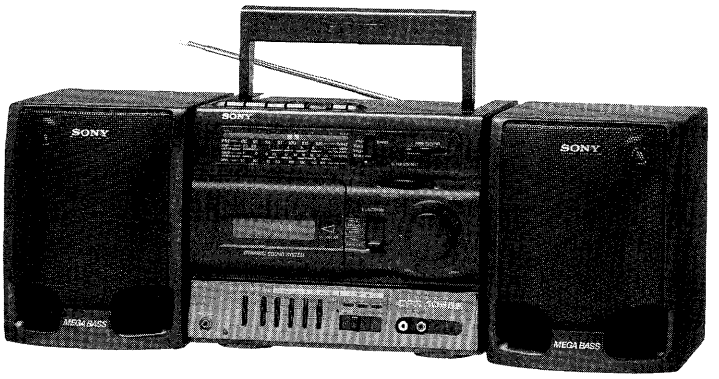
CFS-1055L

SERVICE MANUAL

AEP Model



Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MF-1055

SPECIFICATIONS

Frequency range	FM : 87.6-107MHz MW : 531-1,602kHz LW : 153-279kHz SW : 5.95-18MHz
Antennas	FM/SW : Telescope/MW/LW : Built-in ferrite bar
Recording system	4-track, 2-channel stereo
Frequency response	100–10,000Hz
Speakers Woofer:	10 cm (4inches) dia, cone type/ Tweeter : 2 cm ($^4/_5$ inches) dia.
Input	CD/TV LINE IN jacks (phono jacks), sensitivity 0.3V, input impedance 47 kilohms
Output	Headphones jack (stereo minijack), for 16–68 ohms impedance headphones
Maximum power output	2.3W+2.3W
Power requirements	220–230V AC, 50Hz 9V DC, six size D (R 20) batteries
Power consumption (in AC operation)	14W

Battery life

Batteries	FM recording	Tape playback
Sony SUM-1 (NS)	Approx. 16 hours	Approx. 8 hours
Sony AM alkaline	Approx. 36 hours	Approx. 21 hours

Dimensions	Approx. 579 x 206 x 197 mm (w/h/d) ($22^7/_8$ x $8^1/_8$ x $7^7/_8$ inches) incl. projecting parts and controls, not incl. handle
Mass	Approx. 4.6kg (10lb 2oz) incl. batteries
Supplied accessory	AC power cord (1)

Design and specifications are subject to change without notice.

使用時は添付資料も参照のこと
Refer to the additional documents

RADIO CASSETTE-CORDER

SONY®

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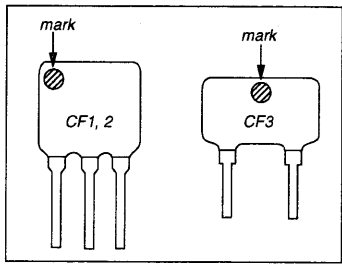
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION.
REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

• HOW TO CHANGED THE CERAMIC FILTERS

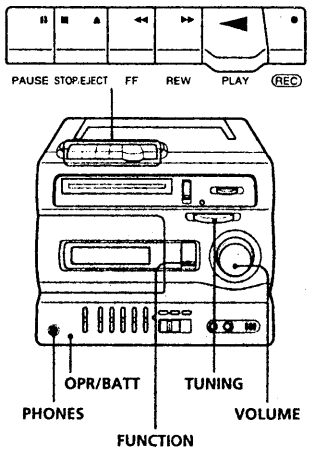
This model is used three ceramic filters of CF1, CF2 and CF3.
You must used same type of color marked ceramic filters in order to meet same specifications.
Therefore, the ceramic filter must changed three pieces together since it's supply three pieces in on package as a spare parts.

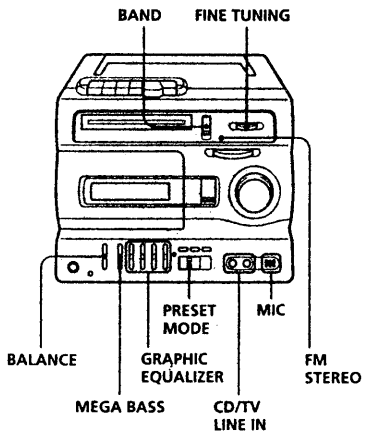


Mark	Center frequency
red	10.70MHz
blue	10.67MHz
orange	10.73MHz
black	10.64MHz
white	10.76MHz

This section is extracted from instruction manual.

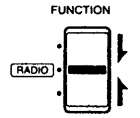
Location of controls



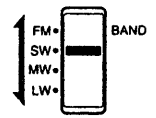


Listening to the radio

1 Set FUNCTION to RADIO.



2 Set BAND to the band you want.



3 Tune to the station you want.

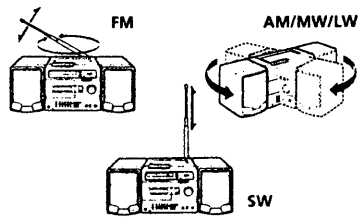
To tune in an SW band, use FINE TUNING for better SW reception.

To turn off the radio

Set FUNCTION to TAPE/RADIO OFF.

To improve broadcast reception

Reorient the aerial for FM. Reorient the player itself for MW or LW . For SW, pull the aerial vertically.



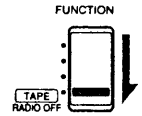
Tips

- If the FM broadcast is noisy, set the FM MODE (at the rear) to MONO and the radio will play in monaural.
- To listen through headphones, connect the headphones to PHONES.
- For best results, move the player away the TV.

Playing a tape

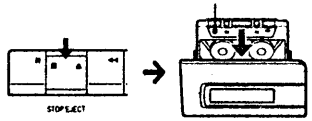
Use TYPE I (normal) tape only.

1 Set FUNCTION to TAPE /RADIO OFF.

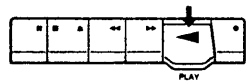


2 Insert a recorded tape.

With the side you want to play on facing forward.



3 Press ◄ PLAY.



To	Press
Stop playback*	■⏏
Fast-forward or rewind the tape*	◄◄ or ►► For the side facing forward.
Pause playback	❚❚ Press this button again to resume playback .

* When the tape end, the depressed button ◄◄, ►► or ◄ is released automatically (Auto shut-off function).

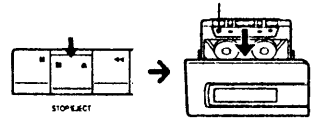
Recording

Use TYPE I (normal) tape only.

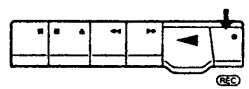
1 **To record from the radio**
Tune to the station you want.
To record from the built-in microphone
Set FUNCTION to TAPE/RADIO OFF.

2 Insert a blank tape.

With the side you want to record on facing forward.



3 Press ● REC.



To	Press
Stop recording	■⏏ When the tape ends, the recording stops.
Pause recording	❚❚ Press this button again to resume recording.

Tips

- For best results, use the mains lead.
- Adjusting the volume or the audio emphasis will not affect the recording level.
- To erase a recording, disconnect the audio source if connected to CD/TV LINE IN. Set FUNCTION to CD/TV LINE IN and press ●.
- If the MW or LW programme makes a whistling sound, set ISS (Interference Suppress Switch) (at the rear) to the position that more decreases the noise.

Note

While recording from the built-in microphone, you cannot monitor the sound through the headphones.

Adjusting the audio emphasis

Using the GRAPHIC EQUALIZER

Use	To adjust
BALANCE	Stereo imaging.
MEGA BASS	Deep bass sound.
400 Hz	Speaking voice, middle frequencies of instrumental music.
1 kHz	Presence of vocals.
4 kHz	Brightness of the sound.
10 kHz	High treble sounds or to reduce high frequency noise/tape hiss.

Using the PRESET MODE

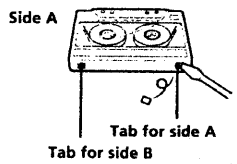
Use	To
MANUAL	Adjust the sound using the GRAPHIC EQUALIZER.
DISCO	Get powerful, clear sounds emphasizing low and high range audio.
PARTY	Get light, bright sounds emphasizing high and middle range audio.
LIVE	Get wide-ranging sounds having presence.

Note

When adjusting the GRAPHIC EQUALIZER, be sure to set the PRESET MODE to MANUAL. The graphic equalizer will not work in any other position.

Notes on cassettes

- Break off the cassette tab from side A or B to prevent accidental recording. If you want to reuse the tape for recording, cover the tab hole with adhesive tape.

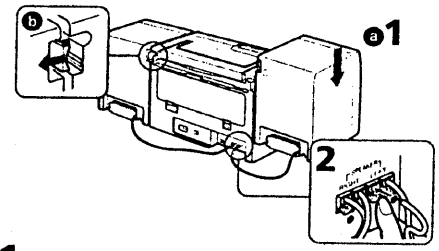


- The use of cassettes with more than 90 minutes of play time is not recommended except for long, continuous recording or playback.

Setting up the system

Connecting the Speakers

Make sure you turn off the power before making connections.



1 Align the grooves and slide the speaker box down until it snaps into place ⓐ.

2 Connect the black wires to (–) minus and the red wires to (+) plus terminals: the right speaker wires to the RIGHT, and the left speaker wires to the LEFT terminals.

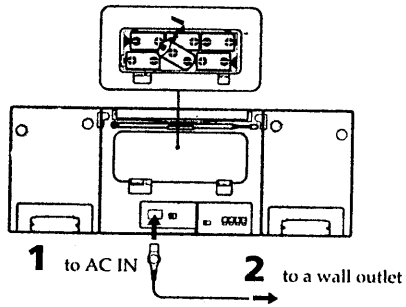
Tip

To detach the speakers, unlock the speaker ⓑ and slide the speaker box all the way up and away from the player.

Choosing Power Sources

To use the player on AC power source (mains)

Connect the supplied AC power cord to the AC IN jack.



To use the player on batteries

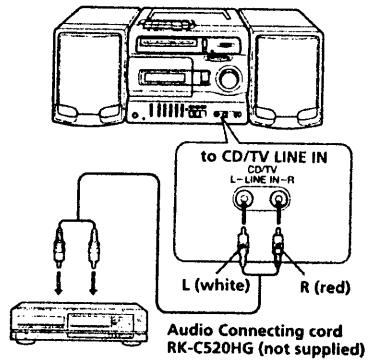
Insert six R20 (size D) batteries (not supplied) into the battery compartment.

Notes

- To use the player on batteries, disconnect the mains lead from the player.
- Replace the batteries when the OPR/BATT indicator dims or when the player stops operating. Replace all batteries with new ones.

Connecting optional components

Before making connections, be sure to turn off the power of the component and set FUNCTION to TAPE/RADIO OFF on the player.



Audio Connecting cord RK-C520HG (not supplied)

After connecting the component, set FUNCTION to CD/TV LINE IN and play the connected component.

Tip

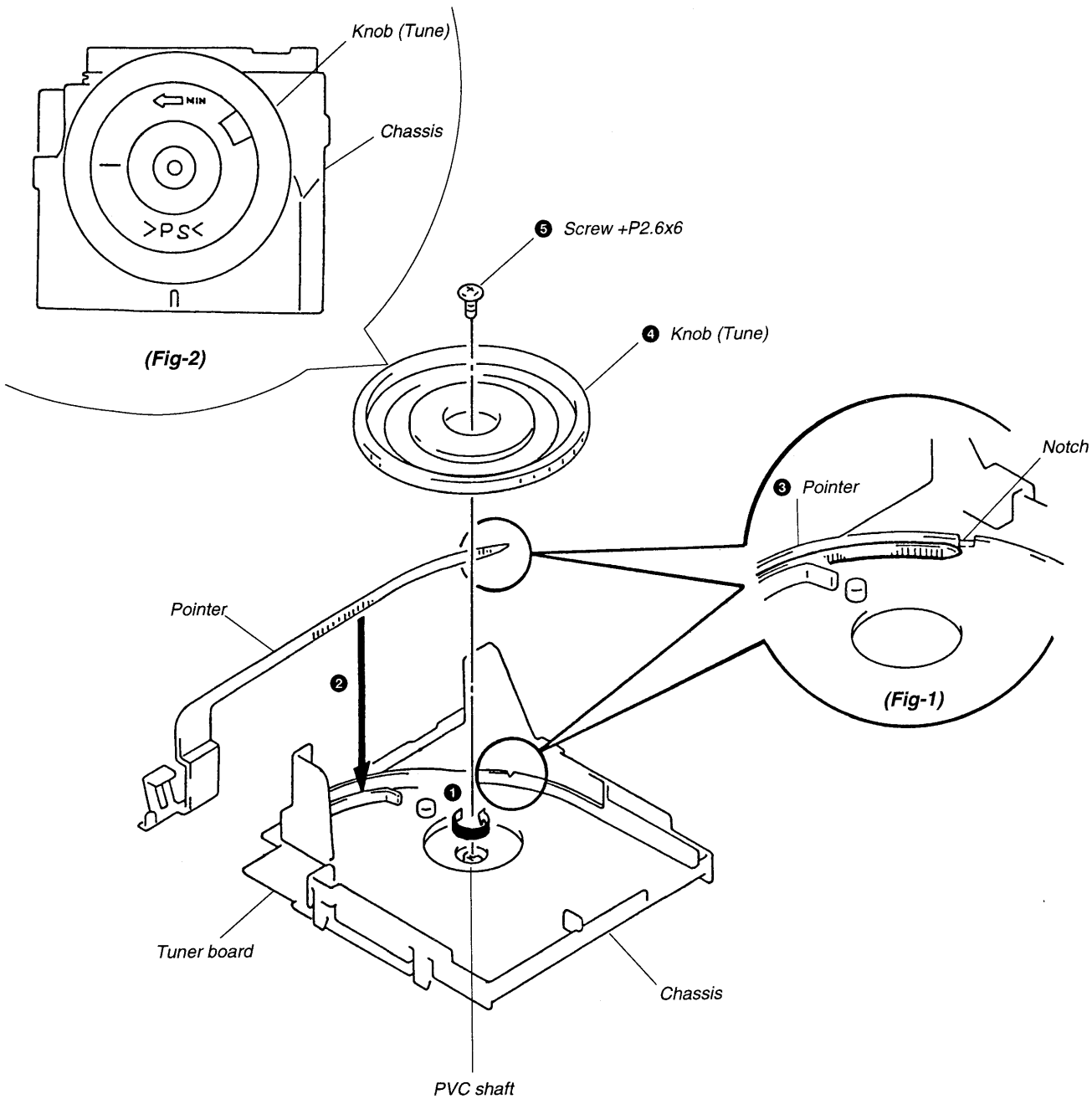
You can record sound from the connected component. Insert a cassette, and press ●.

Note

Connect the cables firmly to avoid any malfunction.

SECTION 2
DIAL POINTER INSTALLATION

Note : Follow the installation procedure in the numerical order given.



❶ *Turn the PVC shaft fully counterclokwise.*
❷ *Place the pointer in the chassis groove.*
❸ *Line up the tip of the pointer with the notch in the chassis. (Fig-1)*
❹ *Attach so that the knob (Tune) is at the position shown in Fig-2.*
❺ *Fasten the knob (tune) to the PVC shaft with the screw.*

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head　　pinch roller
   erase head　　rubber belts
   capstan
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

1. Torque Measurement

Mode	Torque meter	Meter reading
Playback	CQ-102C	30 – 70 g • cm (0.42–0.97 oz• inch)
Back Tension	CQ-102C	1.5 – 5.5 g • cm (0.021–0.076 oz• inch)
Rewind	CQ-201B	55 – 135 g • cm (0.77–1.87 oz• inch)
Fast Forward		

2. Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 100g (3.53 oz)

3-2. ELECTRICAL ADJUSTMENTS

TAPE SECTION

1. The adjustments should be performed in the order given in the service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
2. The adjustments should be performed for both L-CH and R-CH unless otherwise indicated.

- Switch location
  FUNCTION switch ..... TAPE (RADIO OFF)
  GRAPHIC EQUALIZER ..... center click
  BALANCE ..... center click
  VOLUME ..... mechanical center
  BASS BOOST ..... mechanical center

0dB=0.775V

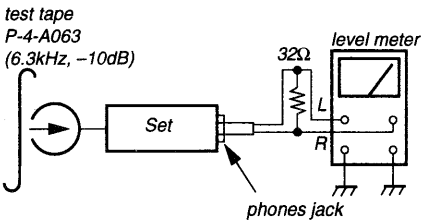
Tast tape

Type	Signal	Used for
WS-48B	3kHz, 0dB	Tape Speed Adjustment
P-4-A063	6.3kHz, –10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment

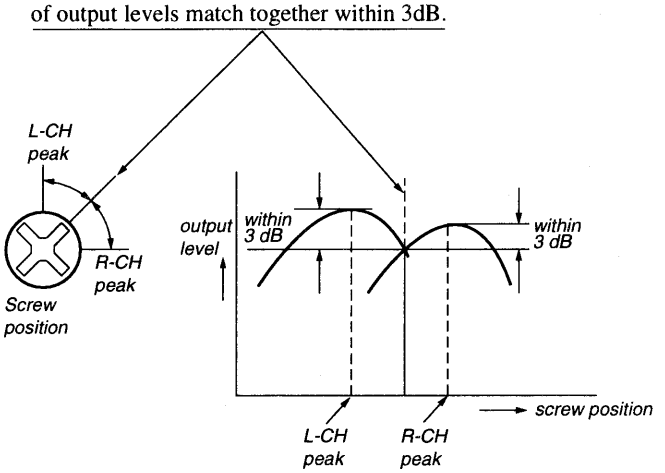
Record/Playback Head Azimuth Adjustment

Procedure :

1. Mode : playback

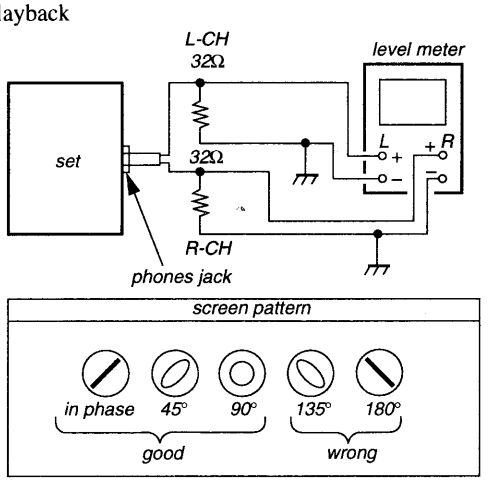


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 3dB.



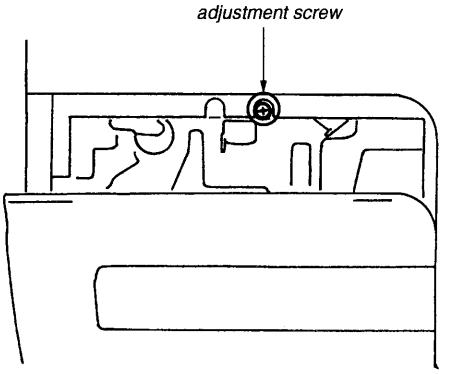
Phase Check

Mode : playback



3. After the adjustment, lock the screw with locking compound.

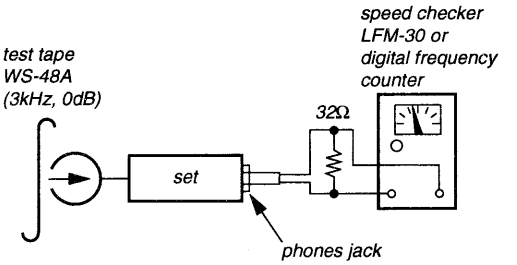
Adjustment Location :



Tape Speed Adjustment

Procedure :

Mode : playback

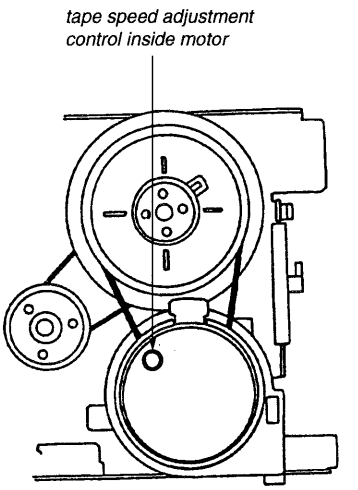


Adjustment Values :

Speed checker	Digital frequency counter
±3%	2,910 to 3,090Hz

Frequency difference between the begining and the end of the tape should be within 1 % (30Hz).

Adjustment Location :



TUNER SECTION

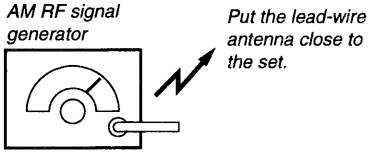
- Switch location

FUNCTION switch ..... RADIO
GRAPHIC EQUALIZER ..... center click
BALANCE ..... center click
VOLUME ..... mechanical center
BASS BOOST ..... center click

MW/LW Section

Procedure :

BAND switch : MW (LW)
FINE TUNING control : mechanical center

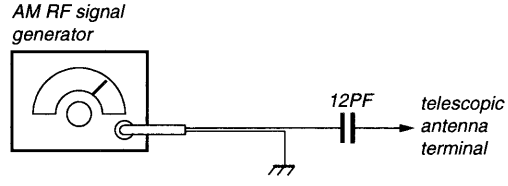


30% amplitude modulation by 400Hz signal.
Output level : as low as possible

SW Section

Procedure :

BAND switch : SW
FINE TUNING control : mechanical center

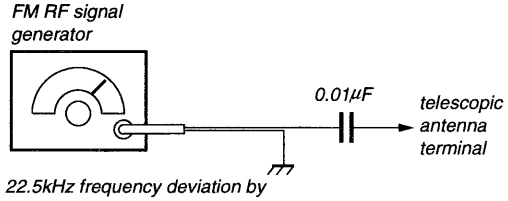


30% amplitude modulation by 400Hz signal.
Output level : as low as possible

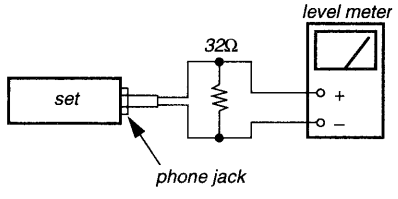
FM Section

Procedure :

BAND switch : FM
FINE TUNEING control : mechanical center



22.5kHz frequency deviation by 400Hz signal.
Output level : as low as possible



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ALIGNMENT	
Adjust for a maximum reading on level meter	
T1	455kHz

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on level meter	
L8	520kHz
CT4	1,680kHz

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L3	600kHz
CT3	1,400kHz

LW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on level meter	
L4	145kHz
CT10	300kHz

LW TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L9	160kHz
CT9	260kHz

SW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on level meter	
L6	5.8MHz
CT6	18.4MHz

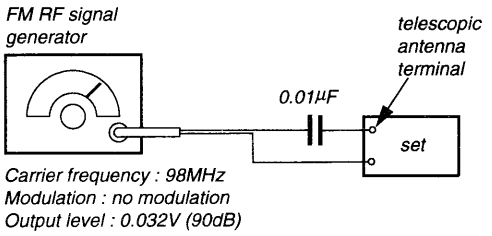
SW TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L5	5.8MHz
CT5	18.4MHz

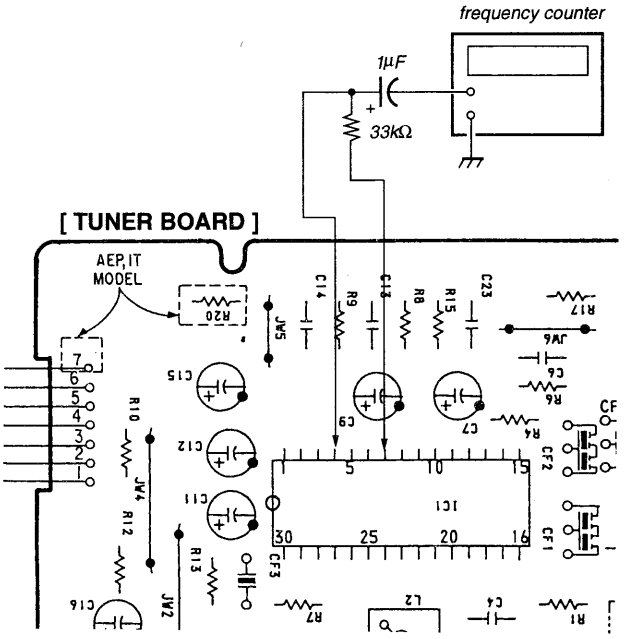
FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on level meter	
L21	87.0MHz
CT2	108.3MHz

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L1	87.0MHz
CT1	108.3MHz

VCO Adjustment

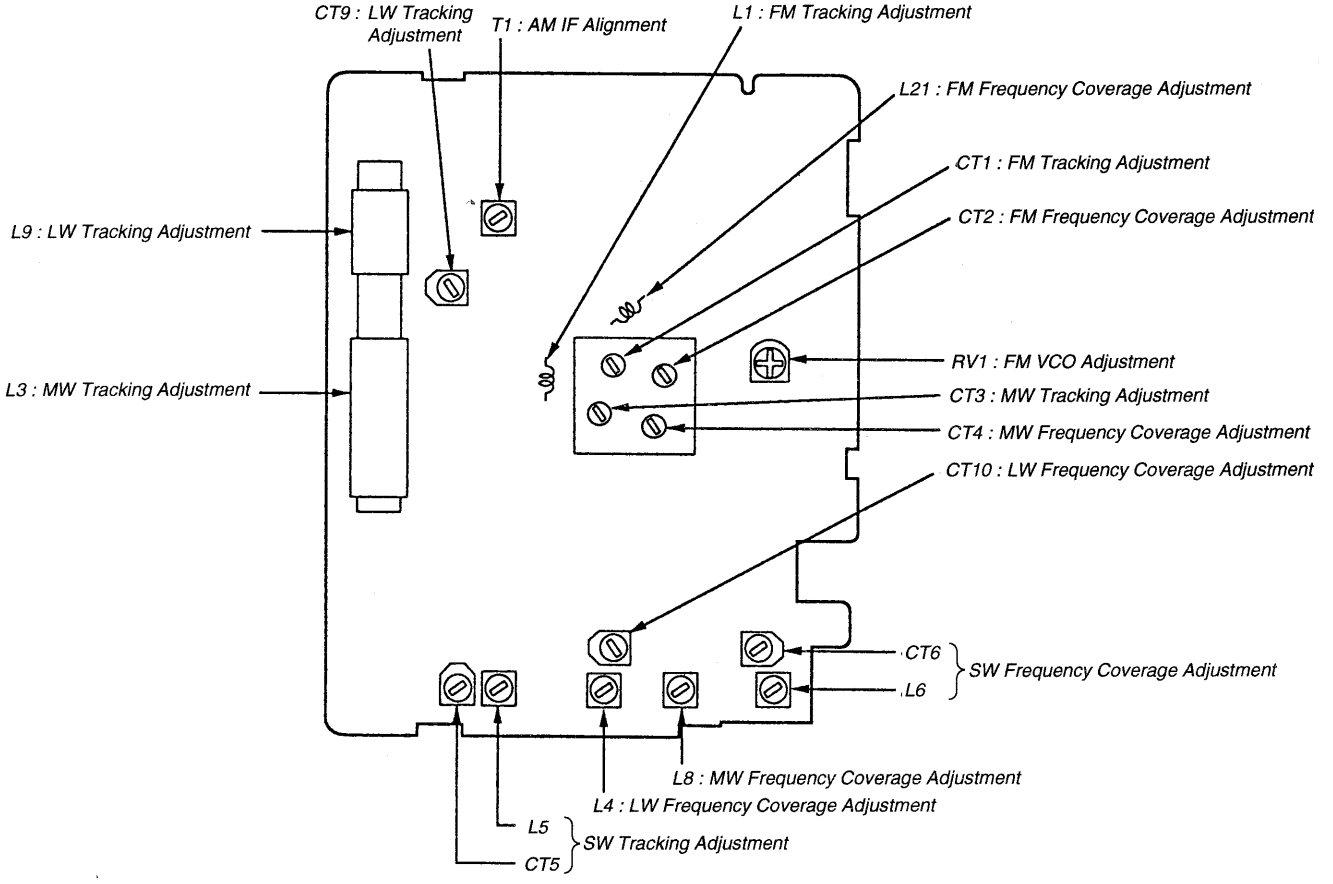
Procedure :





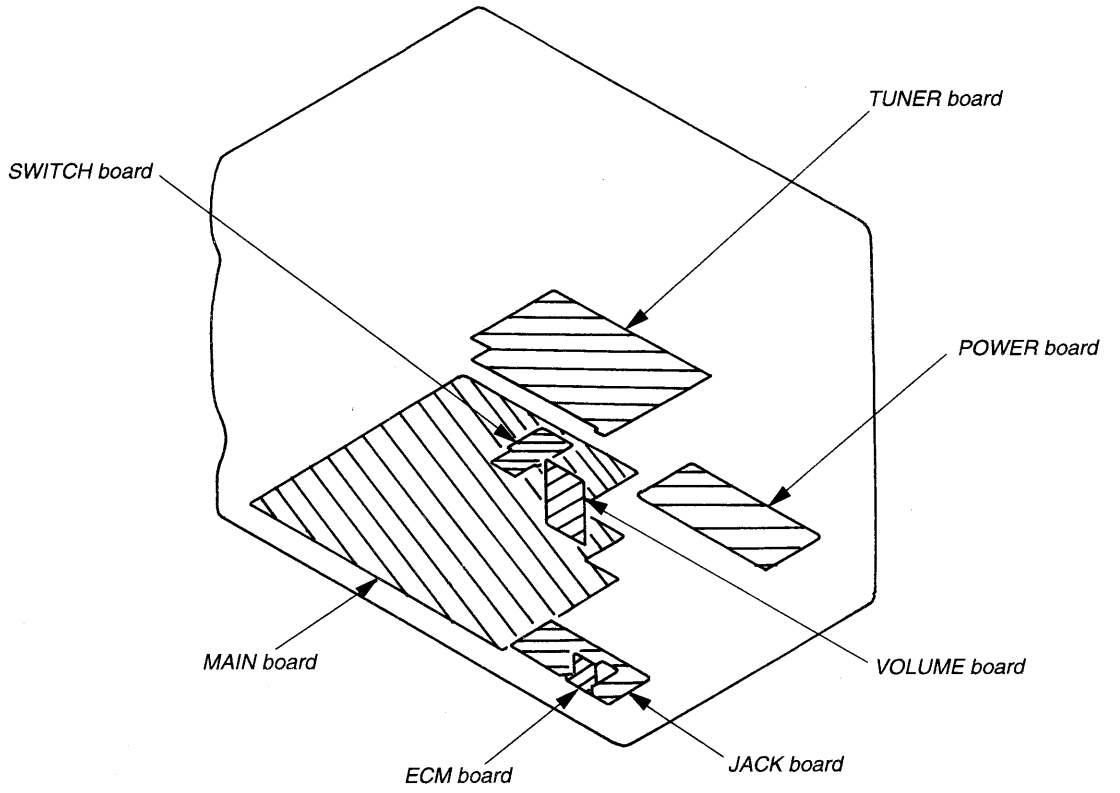
1. Connect the frequency counter to ④ and ⑦ pins of IC1 as shown the figure.
2. Turn the set to 98MHz.
3. Adjust RV1 for 76 kHz ± 500 Hz reading on frequency counter.

Adjustment Location : Tuner board (Component side)


CT9 : LW Tracking Adjustment
T1 : AM IF Alignment
L1 : FM Tracking Adjustment
L21 : FM Frequency Coverage Adjustment
CT1 : FM Tracking Adjustment
CT2 : FM Frequency Coverage Adjustment
L9 : LW Tracking Adjustment
L3 : MW Tracking Adjustment
RV1 : FM VCO Adjustment
CT3 : MW Tracking Adjustment
CT4 : MW Frequency Coverage Adjustment
CT10 : LW Frequency Coverage Adjustment
CT6
L6
SW Frequency Coverage Adjustment
L8 : MW Frequency Coverage Adjustment
L4 : LW Frequency Coverage Adjustment
L5
CT5
SW Tracking Adjustment

SECTION 4
DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



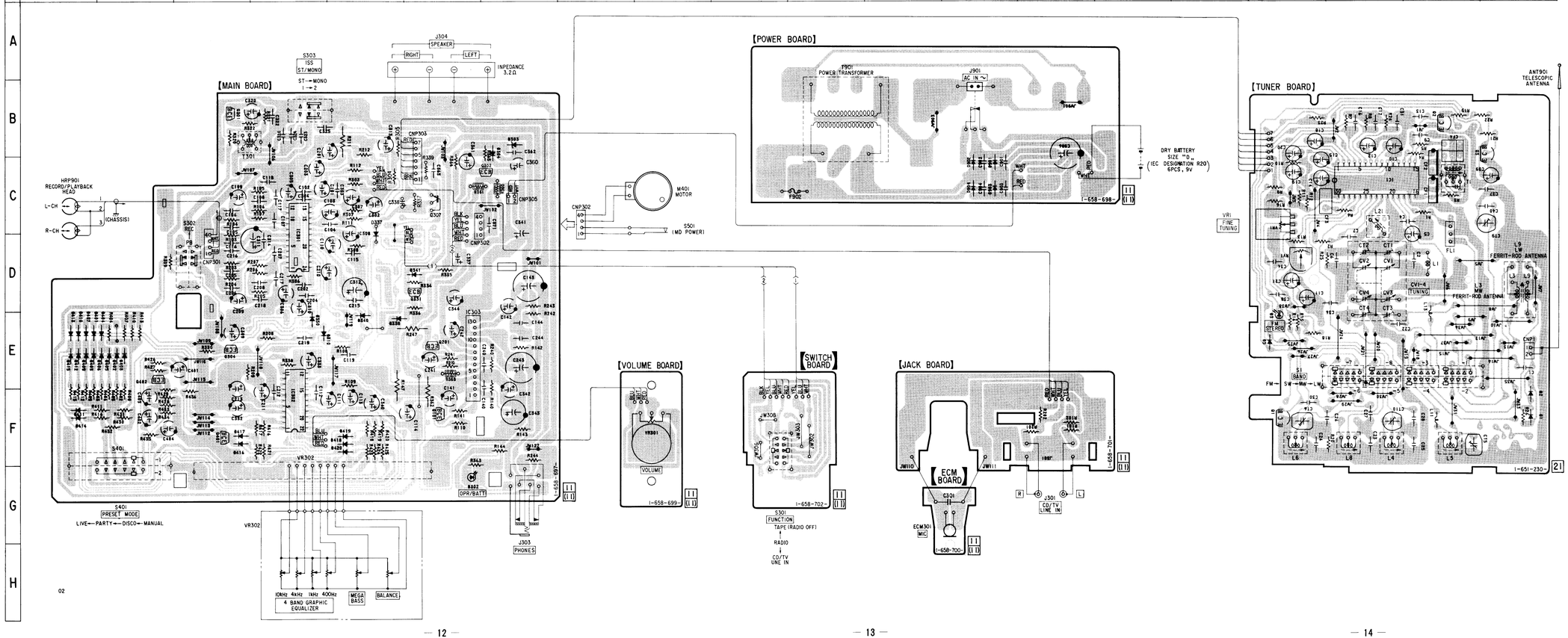
4-2. PRINTED WIRING BOARDS

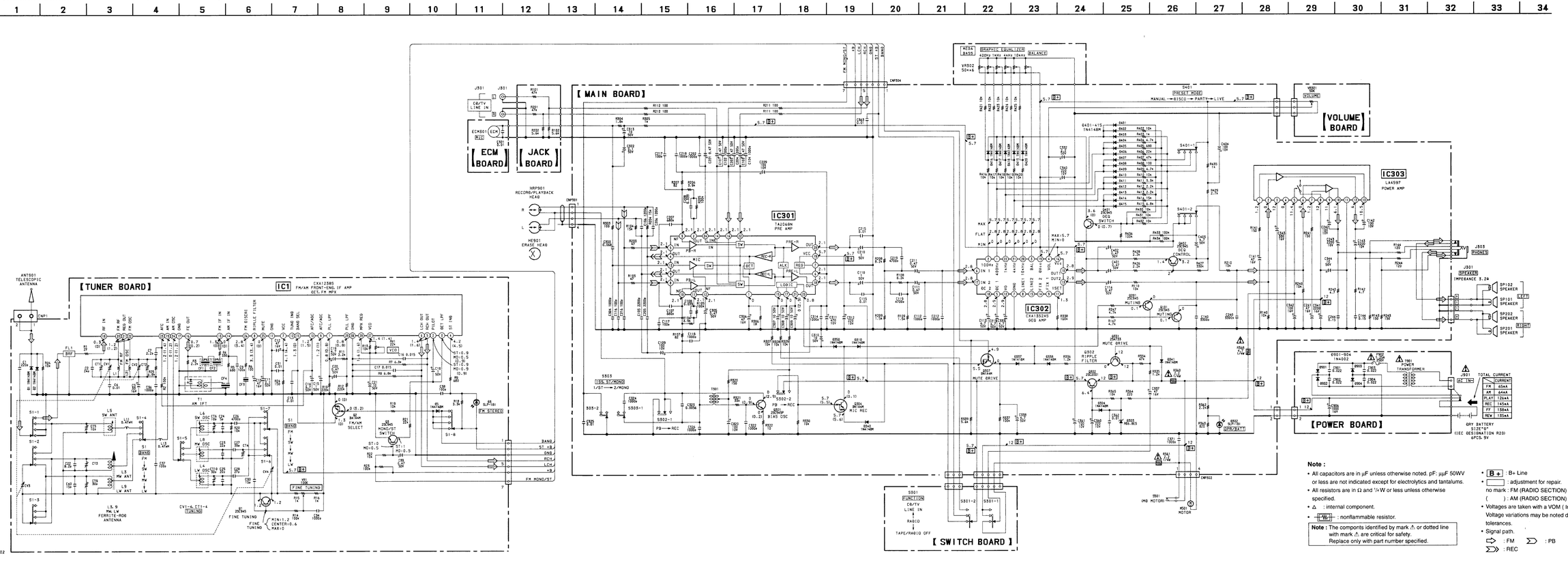
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D1	F-20	D418	F-5
D2	F-20	D419	F-5
D3	E-17	D420	F-5
D5	E-17	D901	C-13
D302	G-6	D902	C-13
D303	B-7	D903	C-13
D304	B-7	D904	C-13
D310	E-4		
D337	C-5		
D338	E-5	IC1	C-18
		IC301	C-4
D340	E-5	IC302	F-4
D341	D-6	IC303	E-6
D350	E-4		
D401	E-1		
D402	E-2	Q1	F-17
		Q2	B-19
D403	E-1	Q3	B-20
D404	E-2	Q101	F-6
D405	E-2	Q201	E-6
D406	E-2		
D407	E-1	Q301	B-3
		Q302	C-7
D408	E-2	Q304	E-3
D409	E-1	Q307	C-6
D410	E-1	Q331	D-6
D411	F-1		
D412	E-1	Q401	F-3
		Q402	E-2
D413	E-1		
D414	F-1		
D415	E-1		
D416	F-3		
D417	F-3		

Note:

- ○— : parts extracted from the component side.
- : Pattern on the side which is seen.





Note :

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- Δ : internal component.
- ⌇W⌇ : nonflammable resistor.

Note : The comporits identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- B+ : B+ Line
- ▭ : adjustment for repair.

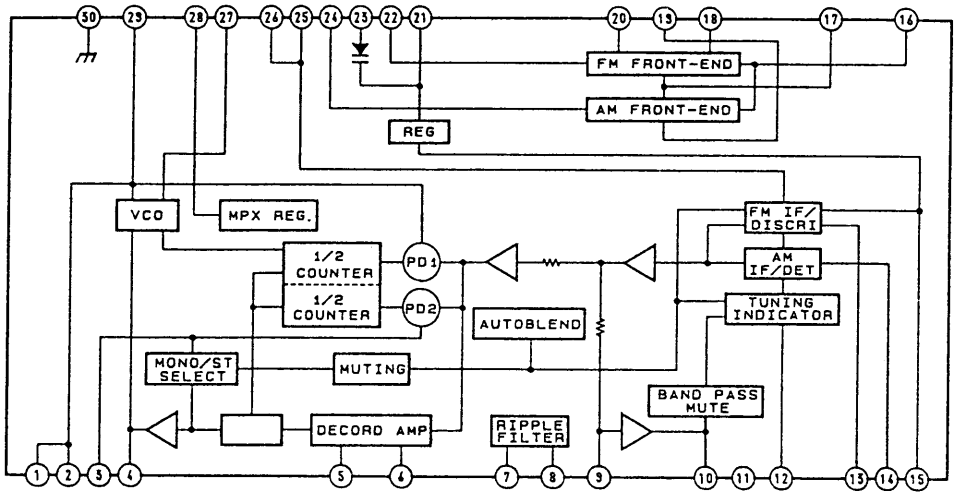
no mark : FM (RADIO SECTION) PLAY (TAPE SECTION)
( ) : AM (RADIO SECTION) REC (TAPE SECTION)

- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.

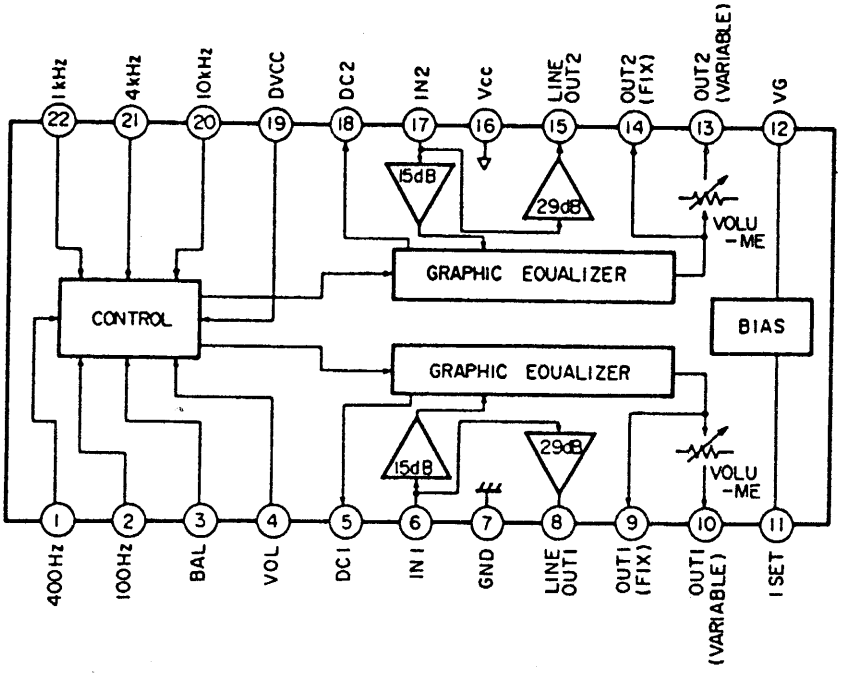
: FM : PB : REC

• IC BLOCK DIAGRAMS

IC1 CXA1238S



IC302 CXA1352AS



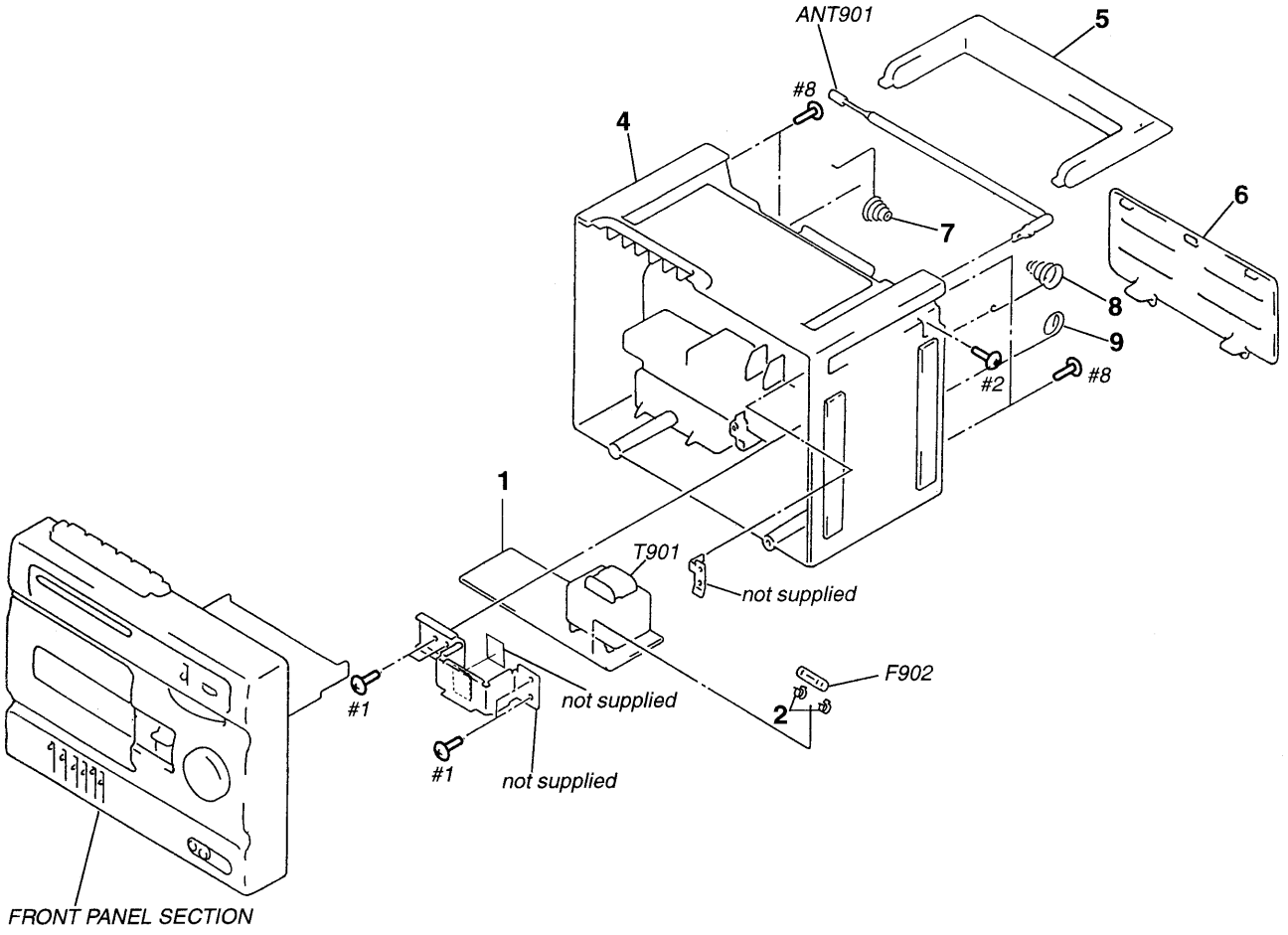
SECTION 5
EXPLODED VIEWS

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
  Parts color Cabinet's color
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

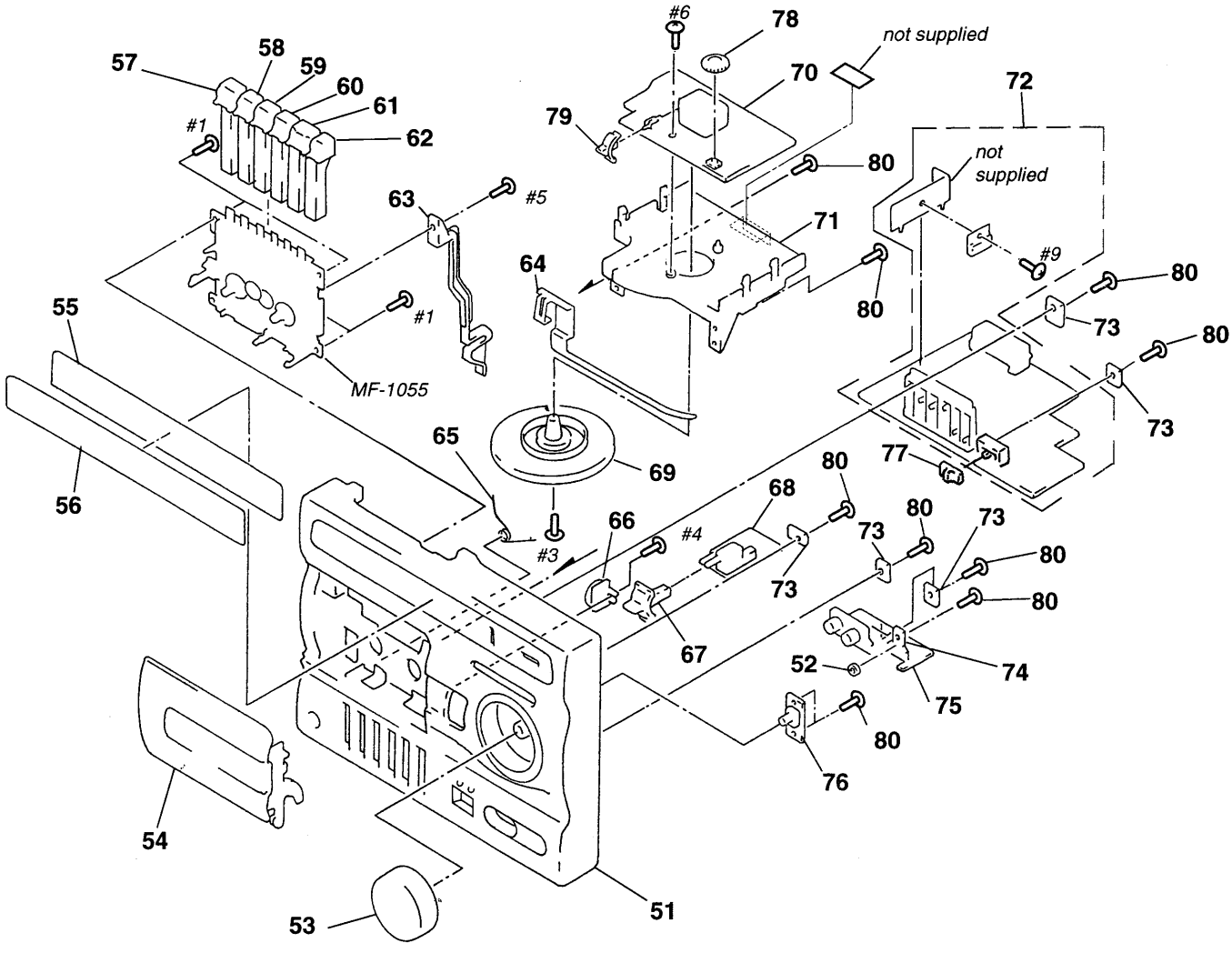
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

5-1. REAR CABINET SECTION



Ref. No.	Part No.	Description	Remark
* 1	1-658-698-11	POWER BOARD	
2	1-533-217-31	HOLDER, FUSE	
4	3-930-876-21	CABINET (REAR)	
5	3-930-878-01	HANDLE	
6	3-364-556-01	LID, BATTERY CASE	
7	3-364-532-01	TERMINAL (+, –), BATTERY	
8	3-930-901-01	SPRING (BATT –)	
9	3-930-900-01	SPRING (BATT +)	
ANT901	1-501-383-21	ANTENNA, TELESCOPIC	
⚠ F902	1-532-285-00	FUSE (T1.25A 250V)	
⚠ T901	1-423-995-11	TRANSFORMER, POWER	

5-2. FRONT PANEL SECTION

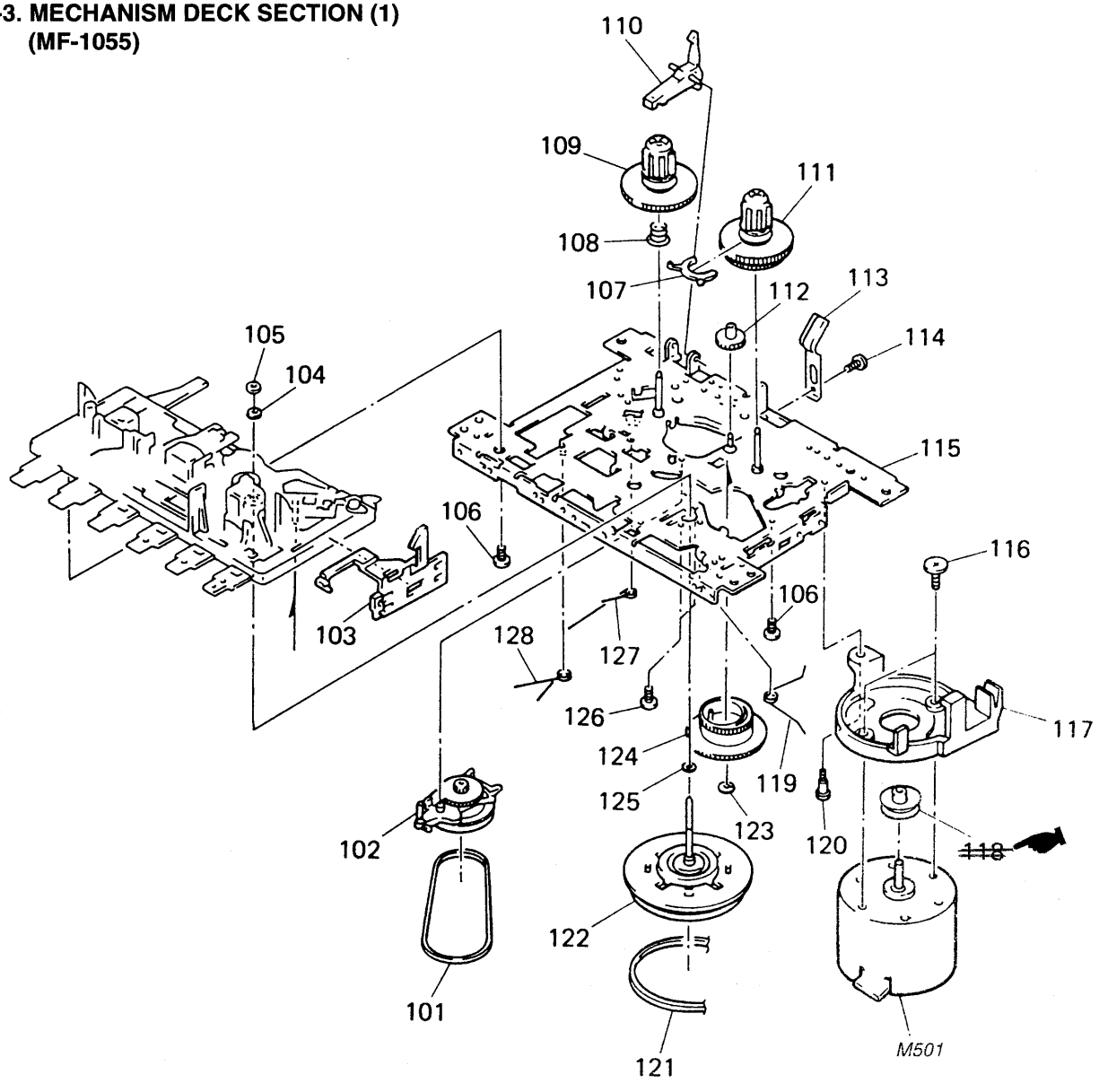


Ref. No.	Part No.	Description	Remark
51	3-930-875-21	CABINET (FRONT)	
52	3-366-963-01	CUSHION (MIC)	
53	3-364-526-01	KNOB (VOL)	
54	A-3304-152-A	HOLDER ASSY, CASSETTE	
* 55	3-931-458-01	SHEET (D) (4 BAND), ADHESIVE	
56	3-930-897-01	WINDOW (4 BAND), SCALE	
57	3-930-880-01	BUTTON (PAUSE), MD	
58	3-930-881-01	BUTTON (STOP/EJECT), MD	
59	3-930-882-01	BUTTON (FF), MD	
60	3-930-883-01	BUTTON (REW), MD	
61	3-930-884-01	BUTTON (PLAY), MD	
62	3-930-885-01	BUTTON (REC), MD	
63	3-930-890-01	LEVER (REC)	
64	3-930-886-01	POINTER	
65	3-930-899-01	SPRING (CASSETTE)	

Ref. No.	Part No.	Description	Remark
66	3-351-377-01	DAMPER	
67	3-930-888-01	KNOB (FUN)	
* 68	1-658-702-11	SWITCH BOARD	
69	3-930-887-01	KNOB (TUN)	
* 70	A-3269-114-A	TUNER BOARD, COMPLETE	
* 71	3-930-879-01	CHASSIS	
* 72	A-3305-492-A	MAIN BOARD, COMPLETE	
* 73	1-658-703-11	RETAINER BOARD	
* 74	1-658-700-11	ECM BOARD	
* 75	1-658-701-11	JACK BOARD	
* 76	1-658-699-11	VOLUME BOARD	
77	3-930-889-01	KNOB (S-MODE)	
78	3-907-639-01	KNOB (F.T)	
79	3-930-891-01	KNOB (BAND)	
80	4-951-620-01	SCREW (2.6X8) +BVTP	

REVISED

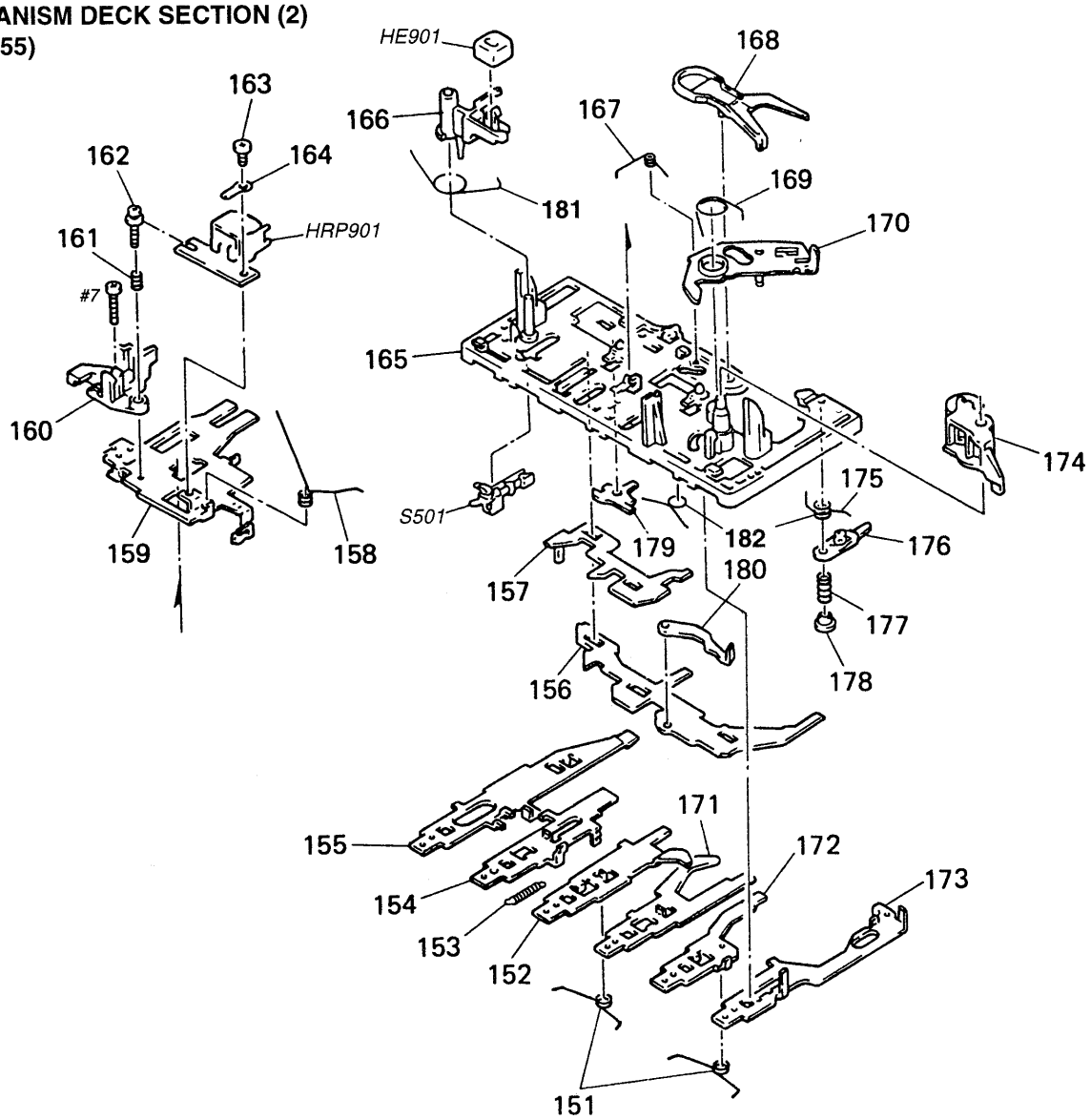
5-3. MECHANISM DECK SECTION (1) (MF-1055)



Ref. No.	Part No.	Description	Remark
101	3-596-931-01	BELT, RF	
102	3-913-441-01	CLUTCH ASSY, RF	
103	3-348-366-01	LEVER, EJECT SLIDE	
104	3-913-442-01	WASHER, POLY-SLIDER	
105	3-913-434-01	WASHER, POLY-SLIDER	
106	3-348-370-01	SCREW (M2X5), P TIGHT BIND	
107	3-348-380-01	SENSOR	
108	3-913-429-01	SPRING, BACK TENSION	
109	3-913-430-01	REEL ASSY, SUPPLY	
110	3-348-368-01	LEVER, REC SAFETY	
111	3-913-431-01	REEL ASSY, TAKE-UP	
112	3-348-357-01	GEAR, FF	
113	3-348-367-01	PLATE, SP, PACK RETAINER	
114	3-348-369-01	SCREW (M2X3), C TIGHT	
115	3-348-335-01	CHASSIS ASSY	

Ref. No.	Part No.	Description	Remark
116	3-598-855-01	MOTOR COLLER SCREW	
* 117	3-931-466-01	BRACKET, MOTOR	
~~118~~	~~3-395-984-01~~	~~PULLEY, MOTOR~~	
119	3-348-336-01	SPRING	
120	3-395-995-01	SCREW, MB	
121	3-913-432-01	BELT, MAIN	
122	3-348-356-01	FLYWHEEL ASSY	
123	3-348-373-01	WASHER, POLYETHYLENE SLIDER	
124	3-348-353-01	GEAR, CAM	
125	3-913-433-01	WASHER, POLY-SLIDER	
126	3-348-371-01	SCREW (M2X4.5), CAMERA TAPPING	
127	3-348-341-01	SPRING	
128	3-348-337-01	SPRING	
M501	X-3372-889-1	MOTOR ASSY	

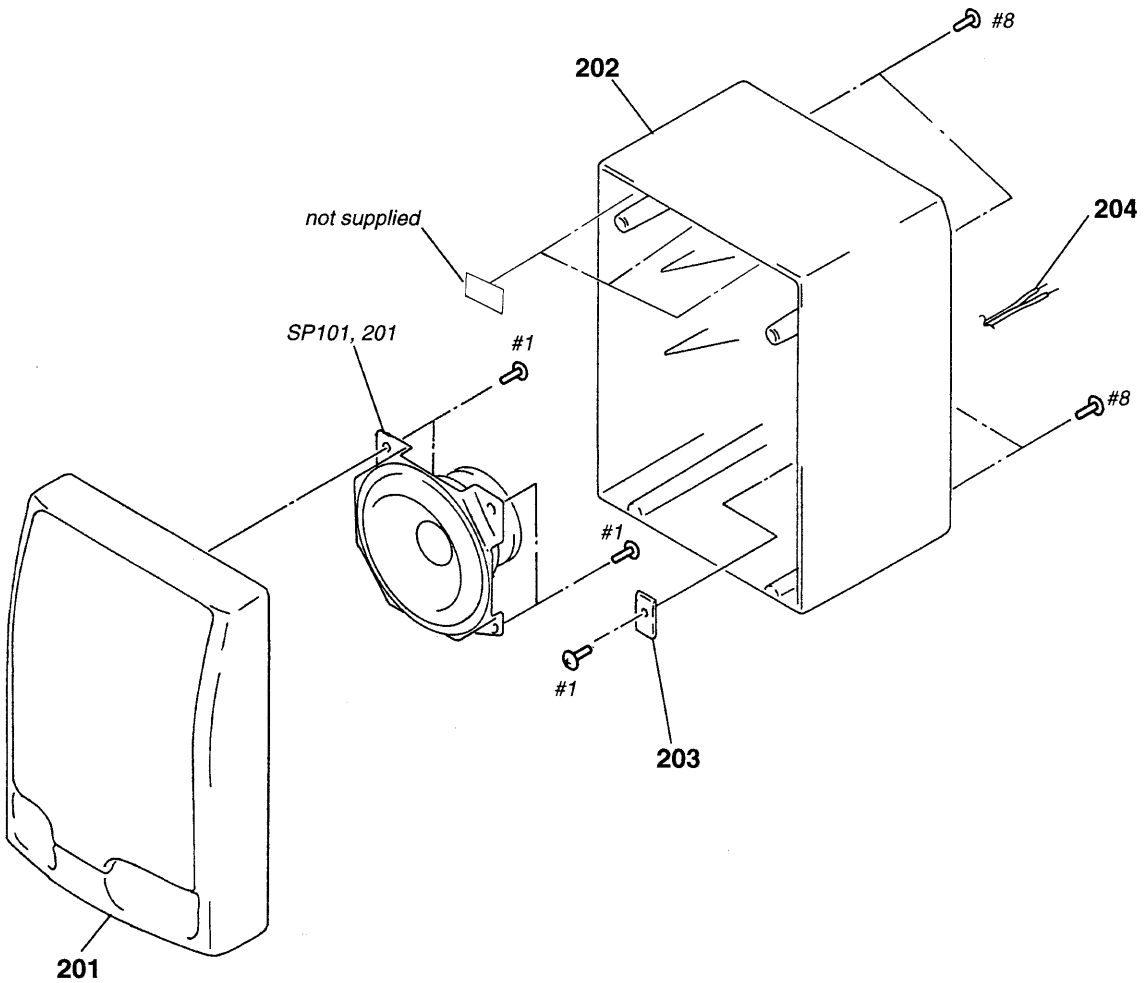
5-4. MECHANISM DECK SECTION (2) (MF-1055)



Ref. No.	Part No.	Description	Remark
151	3-348-334-01	SPRING (A)	
* 152	3-394-739-01	LEVER, REW BUTTON	
153	3-913-436-01	SPRING (S), PLAY BUTTON LEVER	
* 154	3-394-738-01	LEVER, PLAY BUTTON	
* 155	3-394-737-01	LEVER, REC BUTTON	
* 156	3-348-323-01	PLATE, FUNCTION, PUSH BUTTON	
* 157	3-348-322-01	PLATE, FUNCTION, SWITCH	
158	3-394-744-01	SPRING	
* 159	3-395-986-01	PANEL, HEAD	
160	3-348-344-11	BASE, HEAD	
161	3-598-845-01	SPRING	
162	3-394-749-01	SCREW (M2X7), AZIMUTH	
163	3-348-372-01	SCREW (M2X3), + BIND	
164	3-394-748-01	LUG (B3)	
165	3-348-347-01	CHASSIS (MOLD) ASSY	
166	3-348-346-01	ARM, MG	
167	3-913-437-01	SPRING, M CONTROLLER	
168	3-913-439-01	LEVER, SENSING	

Ref. No.	Part No.	Description	Remark
169	3-348-351-01	SPRING	
* 170	3-913-440-01	PLATE ASSY, GEAR	
* 171	3-394-740-01	LEVER, FF BUTTON	
* 172	3-394-741-01	LEVER, STOP BUTTON	
* 173	3-394-742-01	LEVER, PAUSE BUTTON	
174	3-913-438-01	ARM ASSY, PINCH ROLLER	
175	3-348-330-11	SPRING	
176	3-348-331-02	LEVER, PAUSE	
177	3-348-332-01	SPRING	
178	3-348-333-01	STOPPER, PAUSE	
179	3-348-340-01	STOPPER, PR	
* 180	3-348-339-01	LEVER, E KICK	
181	3-931-380-01	SPRING (B), BUTTON LEVER	
182	3-931-381-01	ARM (SP), MG	
HE901	1-500-311-11	HEAD, ERASE (ERASE)	
HRP901	1-500-312-11	HEAD, R/P (RECORD/PLAYBACK)	
S501	1-692-978-11	SWITCH, LEAF (MD POWER)	

5-5. SPEAKER SECTION



Ref. No.	Part No.	Description	Remark
201	3-930-892-01	CABINET (F/L), SP (L-CH)	
201	3-930-893-01	CABINET (F/R), SP (R-CH)	
202	3-930-894-01	CABINET (R/L), SP (L-CH)	
202	3-930-895-01	CABINET (R/R), SP (R-CH)	

Ref. No.	Part No.	Description	Remark
203	1-658-703-11	RETAINER BOARD	
204	1-690-969-11	CORD, SPEAKER CONNECTION	
SP101	1-505-211-11	SPEAKER (10CM) (L-CH)	
SP201	1-505-211-11	SPEAKER (10CM) (R-CH)	

SECTION 6
ELECTRICAL PARTS LIST

ECM **JACK** **MAIN**

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-658-700-11	ECM BOARD			
		**********			
	3-366-963-01	CUSHION (MIC)			
		< CAPACITOR >			
C301	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< MICROPHONE >			
ECM301	1-542-118-11	MICROPHONE, ELECTRET CONDENSER (MIC)			
**********					
*	1-658-701-11	JACK BOARD			
		**********			
		< JACK >			
J301	1-563-716-21	JACK, PIN 2P (CD/TV LINE IN)			
		< RESISTOR >			
R101	1-249-437-11	CARBON	47K	5%	1/4W
R102	1-249-426-11	CARBON	5.6K	5%	1/4W
R201	1-249-437-11	CARBON	47K	5%	1/4W
R202	1-249-426-11	CARBON	5.6K	5%	1/4W
**********					
*	A-3305-492-A	MAIN BOARD, COMPLETE			
		**********			
	3-930-889-01	KNOB (S-MODE)			
	7-685-871-01	SCREW +BVTT 3X6 (S)			
		< CAPACITOR >			
C101	1-124-902-00	ELECT	0.47uF	20%	50V
C102	1-162-294-31	CERAMIC	0.001uF	10%	50V
C103	1-124-902-00	ELECT	0.47uF	20%	50V
C104	1-162-294-31	CERAMIC	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C105	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C106	1-161-040-00	CERAMIC	0.0012uF	10%	16V
C107	1-162-292-31	CERAMIC	680PF	10%	50V
C108	1-161-020-11	CERAMIC	0.039uF	10%	16V
C109	1-124-443-00	ELECT	100uF	20%	10V
C110	1-124-903-11	ELECT	1uF	20%	50V
C111	1-124-902-00	ELECT	0.47uF	20%	50V
C112	1-162-294-31	CERAMIC	0.001uF	10%	50V
C113	1-126-963-11	ELECT	4.7uF	20%	50V
C114	1-124-902-00	ELECT	0.47uF	20%	50V
C115	1-162-306-11	CERAMIC	0.01uF	30%	16V
C116	1-162-282-31	CERAMIC	100PF	10%	50V
C117	1-162-282-31	CERAMIC	100PF	10%	50V
C118	1-162-294-31	CERAMIC	0.001uF	10%	50V
C119	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C140	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C141	1-104-664-11	ELECT	47uF	20%	16V
C142	1-124-443-00	ELECT	100uF	20%	10V
C143	1-126-927-11	ELECT	2200uF	20%	10V
C144	1-130-497-00	MYLAR	0.15uF	5%	50V
C201	1-124-902-00	ELECT	0.47uF	20%	50V
C202	1-162-294-31	CERAMIC	0.001uF	10%	50V
C203	1-124-902-00	ELECT	0.47uF	20%	50V
C204	1-162-294-31	CERAMIC	0.001uF	10%	50V
C205	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C206	1-161-040-00	CERAMIC	0.0012uF	10%	16V
C207	1-162-292-31	CERAMIC	680PF	10%	50V
C208	1-161-020-11	CERAMIC	0.039uF	10%	16V
C209	1-124-443-00	ELECT	100uF	20%	10V
C210	1-124-903-11	ELECT	1uF	20%	50V
C211	1-124-902-00	ELECT	0.47uF	20%	50V
C212	1-162-294-31	CERAMIC	0.001uF	10%	50V
C213	1-126-963-11	ELECT	4.7uF	20%	50V

MAIN

Ref. No.	Part No.	Description				Remark
C215	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C216	1-162-282-31	CERAMIC	100PF	10%	50V	
C217	1-162-282-31	CERAMIC	100PF	10%	50V	
C218	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C219	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C240	1-162-303-11	CERAMIC	0.0033uF	30%	16V	
C241	1-104-664-11	ELECT	47uF	20%	16V	
C242	1-124-443-00	ELECT	100uF	20%	10V	
C243	1-126-927-11	ELECT	2200uF	20%	10V	
C244	1-130-497-00	MYLAR	0.15uF	5%	50V	
C302	1-126-956-11	ELECT	0.1uF	20%	50V	
C303	1-162-849-11	CERAMIC	0.068uF	10%	16V	
C304	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C305	1-124-902-00	ELECT	0.47uF	20%	50V	
C306	1-104-664-11	ELECT	47uF	20%	16V	
C307	1-124-907-11	ELECT	10uF	20%	50V	
C308	1-124-907-11	ELECT	10uF	20%	50V	
C309	1-124-907-11	ELECT	10uF	20%	50V	
C310	1-124-907-11	ELECT	10uF	20%	50V	
C311	1-124-472-11	ELECT	470uF	20%	10V	
C312	1-104-666-11	ELECT	220uF	20%	10V	
C313	1-124-907-11	ELECT	10uF	20%	50V	
C314	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C320	1-124-443-00	ELECT	100uF	20%	10V	
C322	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C323	1-130-480-00	MYLAR	0.0056uF	5%	50V	
C323	1-137-437-11	FILM	0.0056uF	5%	50V	
C324	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C325	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C326	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C332	1-126-961-11	ELECT	2.2uF	20%	50V	
C333	1-126-963-11	ELECT	4.7uF	20%	50V	
C337	1-104-664-11	ELECT	47uF	20%	16V	
C338	1-126-963-11	ELECT	4.7uF	20%	50V	
C340	1-104-666-11	ELECT	220uF	20%	10V	
C341	1-124-556-11	ELECT	2200uF	20%	16V	
C342	1-104-665-11	ELECT	100uF	20%	16V	
C343	1-124-119-00	ELECT	330uF	20%	16V	
C344	1-124-907-11	ELECT	10uF	20%	50V	
C360	1-104-666-11	ELECT	220uF	20%	10V	
C361	1-124-443-00	ELECT	100uF	20%	10V	
C362	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C363	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C371	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C401	1-124-902-00	ELECT	0.47uF	20%	50V	
C402	1-124-902-00	ELECT	0.47uF	20%	50V	
C403	1-126-963-11	ELECT	4.7uF	20%	50V	
C404	1-124-443-00	ELECT	100uF	20%	10V	
		< CONNECTOR >				
CNP301	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P				
CNP302	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P				

Ref. No.	Part No.	Description		Remark
* CNP303	1-580-159-11	PIN, CONNECTOR (PC BOARD) 7P		
* CNP305	1-580-154-11	PIN, CONNECTOR (PC BOARD) 2P		
		< DIODE >		
D302	8-719-038-29	LED	SLP-181B-51 (OPR/BATT)	
D303	8-719-109-97	DIODE	RD6.8ES-B2	
D304	8-719-987-63	DIODE	1N4148M	
D310	8-719-987-63	DIODE	1N4148M	
D337	8-719-987-63	DIODE	1N4148M	
D338	8-719-987-63	DIODE	1N4148M	
D340	8-719-987-63	DIODE	1N4148M	
D341	8-719-987-63	DIODE	1N4148M	
D350	8-719-987-63	DIODE	1N4148M	
D401	8-719-987-63	DIODE	1N4148M	
D402	8-719-987-63	DIODE	1N4148M	
D403	8-719-987-63	DIODE	1N4148M	
D404	8-719-987-63	DIODE	1N4148M	
D405	8-719-987-63	DIODE	1N4148M	
D406	8-719-987-63	DIODE	1N4148M	
D407	8-719-987-63	DIODE	1N4148M	
D408	8-719-987-63	DIODE	1N4148M	
D409	8-719-987-63	DIODE	1N4148M	
D410	8-719-987-63	DIODE	1N4148M	
D411	8-719-987-63	DIODE	1N4148M	
D412	8-719-987-63	DIODE	1N4148M	
D413	8-719-987-63	DIODE	1N4148M	
D414	8-719-987-63	DIODE	1N4148M	
D415	8-719-987-63	DIODE	1N4148M	
D416	8-719-987-63	DIODE	1N4148M	
D417	8-719-987-63	DIODE	1N4148M	
D418	8-719-987-63	DIODE	1N4148M	
D419	8-719-987-63	DIODE	1N4148M	
D420	8-719-987-63	DIODE	1N4148M	
		< IC >		
IC301	8-759-264-71	IC	TA2068N	
IC302	8-752-067-34	IC	CXA1352AS	
IC303	8-759-820-22	IC	LA4597	
		< JACK >		
J303	1-566-891-11	JACK (PHONES)		
J304	1-537-330-11	TERMINAL BOARD (SPEAKER)		
		< TRANSISTOR >		
Q101	8-729-900-74	TRANSISTOR	DTC143TS	
Q201	8-729-900-74	TRANSISTOR	DTC143TS	
Q301	8-729-194-57	TRANSISTOR	2SC945-P	
Q302	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2	
Q304	8-729-900-61	TRANSISTOR	DTA114ES	
Q307	8-729-900-61	TRANSISTOR	DTA114ES	
Q331	8-729-141-03	TRANSISTOR	2SA733-QP	
Q401	8-729-194-57	TRANSISTOR	2SC945-P	

Ref. No.	Part No.	Description			Remark
Q402	8-729-194-57	TRANSISTOR	2SC945-P		
		< RESISTOR >			
R103	1-249-401-11	CARBON	47	5%	1/4W
R104	1-249-431-11	CARBON	15K	5%	1/4W
R105	1-249-441-11	CARBON	100K	5%	1/4W
R106	1-249-424-11	CARBON	3.9K	5%	1/4W
R107	1-249-404-00	CARBON	82	5%	1/4W
R108	1-249-428-11	CARBON	8.2K	5%	1/4W
R109	1-249-419-11	CARBON	1.5K	5%	1/4W
R110	1-249-429-11	CARBON	10K	5%	1/4W
R111	1-247-807-31	CARBON	100	5%	1/4W
R112	1-247-807-31	CARBON	100	5%	1/4W
R140	1-249-429-11	CARBON	10K	5%	1/4W
R141	1-249-407-11	CARBON	150	5%	1/4W
R142	1-249-389-11	CARBON	4.7	5%	1/4W
R143	1-249-407-11	CARBON	150	5%	1/4W
R144	1-249-406-11	CARBON	120	5%	1/4W
R147	1-249-425-11	CARBON	4.7K	5%	1/4W
R203	1-249-401-11	CARBON	47	5%	1/4W
R204	1-249-431-11	CARBON	15K	5%	1/4W
R205	1-249-441-11	CARBON	100K	5%	1/4W
R206	1-249-424-11	CARBON	3.9K	5%	1/4W
R207	1-249-404-00	CARBON	82	5%	1/4W
R208	1-249-428-11	CARBON	8.2K	5%	1/4W
R209	1-249-419-11	CARBON	1.5K	5%	1/4W
R210	1-249-429-11	CARBON	10K	5%	1/4W
R211	1-247-807-31	CARBON	100	5%	1/4W
R212	1-247-807-31	CARBON	100	5%	1/4W
R240	1-249-429-11	CARBON	10K	5%	1/4W
R241	1-249-407-11	CARBON	150	5%	1/4W
R242	1-249-389-11	CARBON	4.7	5%	1/4W
R243	1-249-407-11	CARBON	150	5%	1/4W
R244	1-249-406-11	CARBON	120	5%	1/4W
R247	1-249-425-11	CARBON	4.7K	5%	1/4W
R303	1-247-807-31	CARBON	100	5%	1/4W
R304	1-249-420-11	CARBON	1.8K	5%	1/4W
R305	1-249-417-11	CARBON	1K	5%	1/4W
R306	1-247-903-00	CARBON	1M	5%	1/4W
R307	1-249-429-11	CARBON	10K	5%	1/4W
R308	1-249-429-11	CARBON	10K	5%	1/4W
R309	1-249-429-11	CARBON	10K	5%	1/4W
R320	1-249-407-11	CARBON	150	5%	1/4W
R321	1-249-435-11	CARBON	33K	5%	1/4W
R322	1-249-393-11	CARBON	10	5%	1/4W
R330	1-249-429-11	CARBON	10K	5%	1/4W
R334	1-249-437-11	CARBON	47K	5%	1/4W
R335	1-249-418-11	CARBON	1.2K	5%	1/4W
R336	1-249-418-11	CARBON	1.2K	5%	1/4W
R337	1-249-441-11	CARBON	100K	5%	1/4W
R338	1-247-884-11	CARBON	160K	5%	1/4W
R339	1-249-426-11	CARBON	5.6K	5%	1/4W

Ref. No.	Part No.	Description			Remark
⚠ R360	1-249-385-11	CARBON	2.2	5%	1/6W F
⚠ R361	1-249-385-11	CARBON	2.2	5%	1/6W F
R362	1-249-416-11	CARBON	820	5%	1/4W
R363	1-249-411-11	CARBON	330	5%	1/4W
R364	1-249-409-11	CARBON	220	5%	1/4W
R365	1-249-429-11	CARBON	10K	5%	1/4W
⚠ R368	1-249-389-11	CARBON	4.7	5%	1/4W F
R402	1-249-429-11	CARBON	10K	5%	1/4W
R403	1-249-417-11	CARBON	1K	5%	1/4W
R404	1-249-425-11	CARBON	4.7K	5%	1/4W
R405	1-249-415-11	CARBON	680	5%	1/4W
R406	1-249-433-11	CARBON	22K	5%	1/4W
R407	1-249-437-11	CARBON	47K	5%	1/4W
R408	1-247-807-31	CARBON	100	5%	1/4W
R409	1-249-425-11	CARBON	4.7K	5%	1/4W
R410	1-249-429-11	CARBON	10K	5%	1/4W
R411	1-249-423-11	CARBON	3.3K	5%	1/4W
R412	1-249-421-11	CARBON	2.2K	5%	1/4W
R413	1-249-421-11	CARBON	2.2K	5%	1/4W
R414	1-249-431-11	CARBON	15K	5%	1/4W
R415	1-249-427-11	CARBON	6.8K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R417	1-249-429-11	CARBON	10K	5%	1/4W
R418	1-249-429-11	CARBON	10K	5%	1/4W
R419	1-249-429-11	CARBON	10K	5%	1/4W
R420	1-249-429-11	CARBON	10K	5%	1/4W
R421	1-249-429-11	CARBON	10K	5%	1/4W
R422	1-249-429-11	CARBON	10K	5%	1/4W
R423	1-249-429-11	CARBON	10K	5%	1/4W
R424	1-249-429-11	CARBON	10K	5%	1/4W
R425	1-249-429-11	CARBON	10K	5%	1/4W
R426	1-249-421-11	CARBON	2.2K	5%	1/4W
R427	1-247-891-00	CARBON	330K	5%	1/4W
R428	1-249-421-11	CARBON	2.2K	5%	1/4W
R429	1-249-422-11	CARBON	2.7K	5%	1/4W
R430	1-249-429-11	CARBON	10K	5%	1/4W
R431	1-249-429-11	CARBON	10K	5%	1/4W
R432	1-249-429-11	CARBON	10K	5%	1/4W
R433	1-249-441-11	CARBON	100K	5%	1/4W
R434	1-249-441-11	CARBON	100K	5%	1/4W
R435	1-249-417-11	CARBON	1K	5%	1/4W
R436	1-249-441-11	CARBON	100K	5%	1/4W
		< SWITCH >			
S302	1-762-565-11	SWITCH, SLIDE (REC/PB)			
S303	1-762-674-11	SWITCH, SLIDE (ISS,ST/MONO)			
S401	1-762-539-11	SWITCH, SLIDE (PRESET MODE)			
		< TRANSFORMER >			
T301	1-433-268-00	TRANSFORMER, BIAS OSCILLATOR			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN POWER SWITCH TUNER

Ref. No.	Part No.	Description			Remark
		< VARIABLE RESISTOR >			
VR302	1-223-574-11	RES, VAR, SLIDE 50KX6 (BALANCE,MEGABASS,GRAPHIC EQUALIZER)			
**********					
*	1-658-698-11	POWER BOARD **********			
	1-533-217-31	HOLDER, FUSE			
		< CAPACITOR >			
C901	1-101-005-00	CERAMIC	22000PF		50V
C902	1-101-005-00	CERAMIC	22000PF		50V
C903	1-101-005-00	CERAMIC	22000PF		50V
C904	1-101-005-00	CERAMIC	22000PF		50V
C906	1-126-942-61	ELECT	1000uF	20%	16V
		< DIODE >			
D901	8-719-200-02	DIODE 10E2			
D902	8-719-200-02	DIODE 10E2			
D903	8-719-200-02	DIODE 10E2			
D904	8-719-200-02	DIODE 10E2			
		< FUSE >			
⚠ F902	1-532-285-00	FUSE, TIME LAG (T1.25A 250V)			
		< JACK >			
⚠ J901	1-526-838-11	INLET, AC 2P (AC IN ~)			
		< TRANSFORMER >			
⚠ T901	1-423-995-11	TRANSFORMER, POWER			
**********					
*	1-658-702-11	SWITCH BOARD **********			
	3-930-888-01	KNOB (FUN)			
		< SWITCH >			
S301	1-571-964-11	SWITCH, LEVER SLIDE (FUNCTION)			
**********					
*	A-3269-114-A	TUNER BOARD, COMPLETE **********			
		< CAPACITOR >			
C1	1-162-286-21	CERAMIC	220PF	10%	50V
C2	1-162-208-31	CERAMIC	24PF	5%	50V
C4	1-162-306-11	CERAMIC	0.01uF	30%	16V
C5	1-104-663-11	ELECT	33uF	20%	16V
C6	1-102-959-00	CERAMIC	22PF	5%	50V
C7	1-162-191-31	CERAMIC	2.2PF	10%	50V
C9	1-162-282-31	CERAMIC	100PF	10%	50V

Ref. No.	Part No.	Description			Remark
C10	1-104-664-11	ELECT	47uF	20%	16V
C11	1-126-961-11	ELECT	2.2uF	20%	50V
C12	1-104-664-11	ELECT	47uF	20%	16V
C13	1-162-306-11	CERAMIC	0.01uF	30%	16V
C14	1-126-963-11	ELECT	4.7uF	20%	50V
C15	1-124-903-11	ELECT	1uF	20%	50V
C16	1-161-053-00	CERAMIC	0.015uF	10%	50V
C17	1-161-053-00	CERAMIC	0.015uF	10%	50V
C18	1-124-903-11	ELECT	1uF	20%	50V
C19	1-126-963-11	ELECT	4.7uF	20%	50V
C20	1-124-902-00	ELECT	0.47uF	20%	50V
C21	1-124-907-11	ELECT	10uF	20%	50V
C22	1-162-198-31	CERAMIC	8.2PF	10%	50V
C23	1-102-959-00	CERAMIC	22PF	5%	50V
C24	1-102-942-00	CERAMIC	5.0PF	+-0.5PF	50V
C25	1-104-730-11	FILM	20PF	5%	100V
C26	1-136-287-11	FILM	0.0047uF	5%	100V
C28	1-104-731-11	FILM	27PF	5%	100V
C30	1-162-203-31	CERAMIC	15PF	5%	50V
C31	1-162-306-11	CERAMIC	0.01uF	30%	16V
C34	1-162-294-31	CERAMIC	0.001uF	10%	50V
C36	1-162-294-31	CERAMIC	0.001uF	10%	50V
C37	1-162-282-31	CERAMIC	100PF	10%	50V
C38	1-162-282-31	CERAMIC	100PF	10%	50V
C39	1-124-902-00	ELECT	0.47uF	20%	50V
C40	1-162-203-31	CERAMIC	15PF	5%	50V
		< FILTER >			
CF1	1-577-327-81	FILTER, CERAMIC			
CF2	1-577-327-81	FILTER, CERAMIC			
CF3	1-577-327-81	FILTER, CERAMIC			
CF4	1-567-670-11	FILTER, CERAMIC			
		< CONNECTOR >			
* CNP1	1-580-163-11	PIN, CONNECTOR (PC BOARD) 2P			
		< VARIABLE CAPACITOR >			
CT1-4	1-151-693-11	CAP, VAR (TUNING)			
CV1-4	1-151-693-11	CAP, VAR (TUNING)			
		< TRIMMER >			
CT5	1-141-290-41	CAP, VAR FILM TRIMMER			
CT6	1-141-290-41	CAP, VAR FILM TRIMMER			
CT9	1-141-439-21	CAP, ADJ			
CT10	1-141-245-00	CAP, TRIMMER	30PF		
		< DIODE >			
D1	8-719-987-63	DIODE	1N4148M		
D2	8-719-987-63	DIODE	1N4148M		
D3	8-719-038-29	LED	SLP-181B-51 (FM STEREO)		
D5	8-719-987-63	DIODE	1N4148M		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
		< FILTER >			
FL1	1-236-022-11	FILTER, BAND PASS			
		< IC >			
IC1	8-752-050-20	IC CXA1238S			
		< COIL >			
L1	1-422-317-31	COIL, AIR-CORE			
L3	1-402-590-11	ANTENNA, FERRITE-ROD (MW)			
L4	1-406-252-11	COIL (OSC)			
L5	1-402-596-61	COIL (ANT)			
L6	1-406-471-11	COIL (OSC)			
L8	1-406-253-11	COIL (OSC)			
L9	1-402-590-11	ANTENNA, FERRITE-ROD (LW)			
L11	1-410-314-11	INDUCTOR	0.47uH		
L13	1-410-314-11	INDUCTOR	0.47uH		
L21	1-406-957-21	COIL (WITH CORE)			
		< TRANSISTOR >			
Q1	8-729-194-57	TRANSISTOR	2SC945-P		
Q2	8-729-900-80	TRANSISTOR	DTC114ES		
Q3	8-729-194-57	TRANSISTOR	2SC945-P		
		< RESISTOR >			
R1	1-249-398-11	CARBON	27	5%	1/4W
R2	1-249-441-11	CARBON	100K	5%	1/4W
R3	1-249-421-11	CARBON	2.2K	5%	1/4W
R4	1-249-411-11	CARBON	330	5%	1/4W
R5	1-249-415-11	CARBON	680	5%	1/4W
R6	1-247-807-31	CARBON	100	5%	1/4W
R7	1-249-427-11	CARBON	6.8K	5%	1/4W
R8	1-249-427-11	CARBON	6.8K	5%	1/4W
R9	1-249-415-11	CARBON	680	5%	1/4W
R10	1-247-887-00	CARBON	220K	5%	1/4W
R11	1-249-421-11	CARBON	2.2K	5%	1/4W
R12	1-247-887-00	CARBON	220K	5%	1/4W
R13	1-249-429-11	CARBON	10K	5%	1/4W
R14	1-249-441-11	CARBON	100K	5%	1/4W
R15	1-249-417-11	CARBON	1K	5%	1/4W
R16	1-249-417-11	CARBON	1K	5%	1/4W
R18	1-249-423-11	CARBON	3.3K	5%	1/4W
R19	1-249-429-11	CARBON	10K	5%	1/4W
R20	1-249-429-11	CARBON	10K	5%	1/4W
R21	1-249-433-11	CARBON	22K	5%	1/4W
R22	1-249-429-11	CARBON	10K	5%	1/4W
R23	1-249-441-11	CARBON	100K	5%	1/4W
R24	1-249-407-11	CARBON	150	5%	1/4W
R25	1-249-427-11	CARBON	6.8K	5%	1/4W
R26	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV1	1-223-641-11	RES, ADJ, CARBON 22K (VCO)	
		< SWITCH >	
S1	1-692-868-11	SWITCH, LEVER SLIDE (BAND)	
		< TRANSFORMER >	
T1	1-404-355-00	TRANSFORMER, IF	
		< VARIABLE RESISTOR >	
VR1	1-223-598-11	RES, VAR, CARBON 100K (FINE TUNING)	
**********			
*	1-658-699-11	VOLUME BOARD	
		**********	
		< VARIABLE RESISTOR >	
VR301	1-241-374-11	RES, VAR, CARBON 50K (VOLUME)	
**********			
		MISCELLANEOUS	
		**********	
2	1-533-217-31	HOLDER, FUSE	
204	1-690-969-11	CORD, SPEAKER CONNECTION	
ANT901	1-501-383-21	ANTENNA, TELESCOPIC	
⚠ F902	1-532-285-00	FUSE (T1.25A 250V)	
HE901	1-500-311-11	HEAD, ERASE (ERASE)	
HRP901	1-500-312-11	HEAD, R/P (RECORD/PLAYBACK)	
⚠ J901	1-526-838-11	INLET, AC 2P (AC IN ~)	
M401	1-698-694-11	MOTOR (9B)	
S501	1-692-978-11	SWITCH, LEAF (MD POWER)	
SP101	1-505-211-11	SPEAKER (10CM) (L-CH)	
SP201	1-505-211-11	SPEAKER (10CM) (R-CH)	
⚠ T901	1-423-995-11	TRANSFORMER, POWER	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
⚠	1-696-820-21	CORD, POWER	
	3-810-746-31	MANUAL, INSTRUCTION (ENGLISH,GERMAN)	
	3-810-746-41	MANUAL, INSTRUCTION (FRENCH,SPANISH)	
	3-810-746-51	MANUAL, INSTRUCTION (DUTCH,SWEDISH)	
	3-810-746-61	MANUAL, INSTRUCTION (PORTUGUESE)	
*	3-931-177-01	INDIVIDUAL CARTON	
*	3-931-208-01	CUSHION (TOP)	
*	3-931-209-01	CUSHION (BOTTOM)	
**********			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-647-79	SCREW, TAPPING +BV 3X10	
#2	7-682-548-09	SCREW +P 3X8	
#3	7-621-770-67	SCREW +P 2.6X6	
#4	7-685-135-19	SCREW,TOTSU PTPWH 2.6X10,TYPE2	
#5	7-621-255-25	SCREW +BVTT 2X4 (S)	
#6	7-685-646-79	SCREW, TAPPING +BV 3X8	
#7	7-621-255-45	SCREW +P 2X6	
#8	7-685-649-79	SCREW +BVTP 3X14 TYPE2 N-S	
#9	7-685-871-01	SCREW +BVTT 3X6 (S)	

9-960-611-11
(Including **9-960-611-91**)

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Consumer A&V Products Company
Personal A&V Products Div.

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SERVICE MANUAL

AEP Model

SUPPLEMENT-1

File this Supplement with the Service Manual.

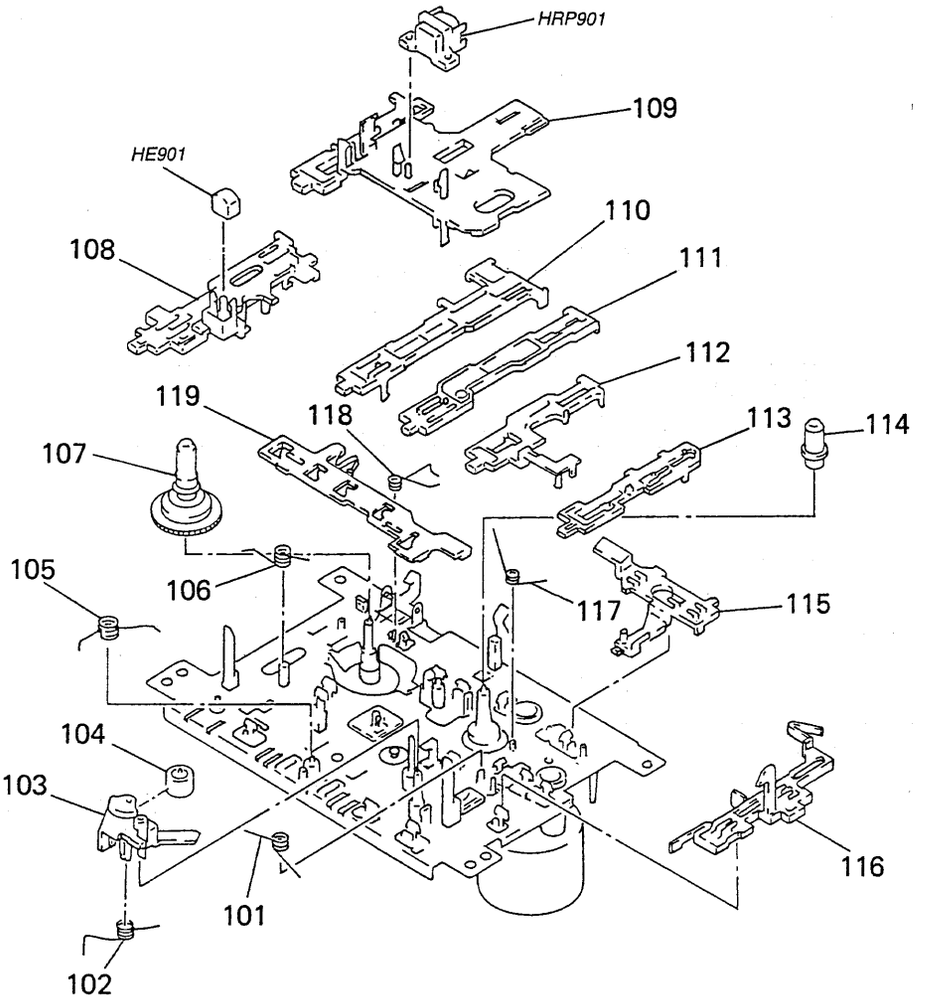
Subject :
Change of Tape Transport Mechanism

The tape transport mechanism has been changed.
Exploded views of new type, and changed parts list are described in this Supplement-1.
Refer to original service manual previously issued for the other information.

	Tape Transport Mechanism Type	Serial Number
Former Type	MF-1055	————
New Type	MF-1055-117	1,003,251～

EXPLODED VIEWS (Service Manual see page 22)

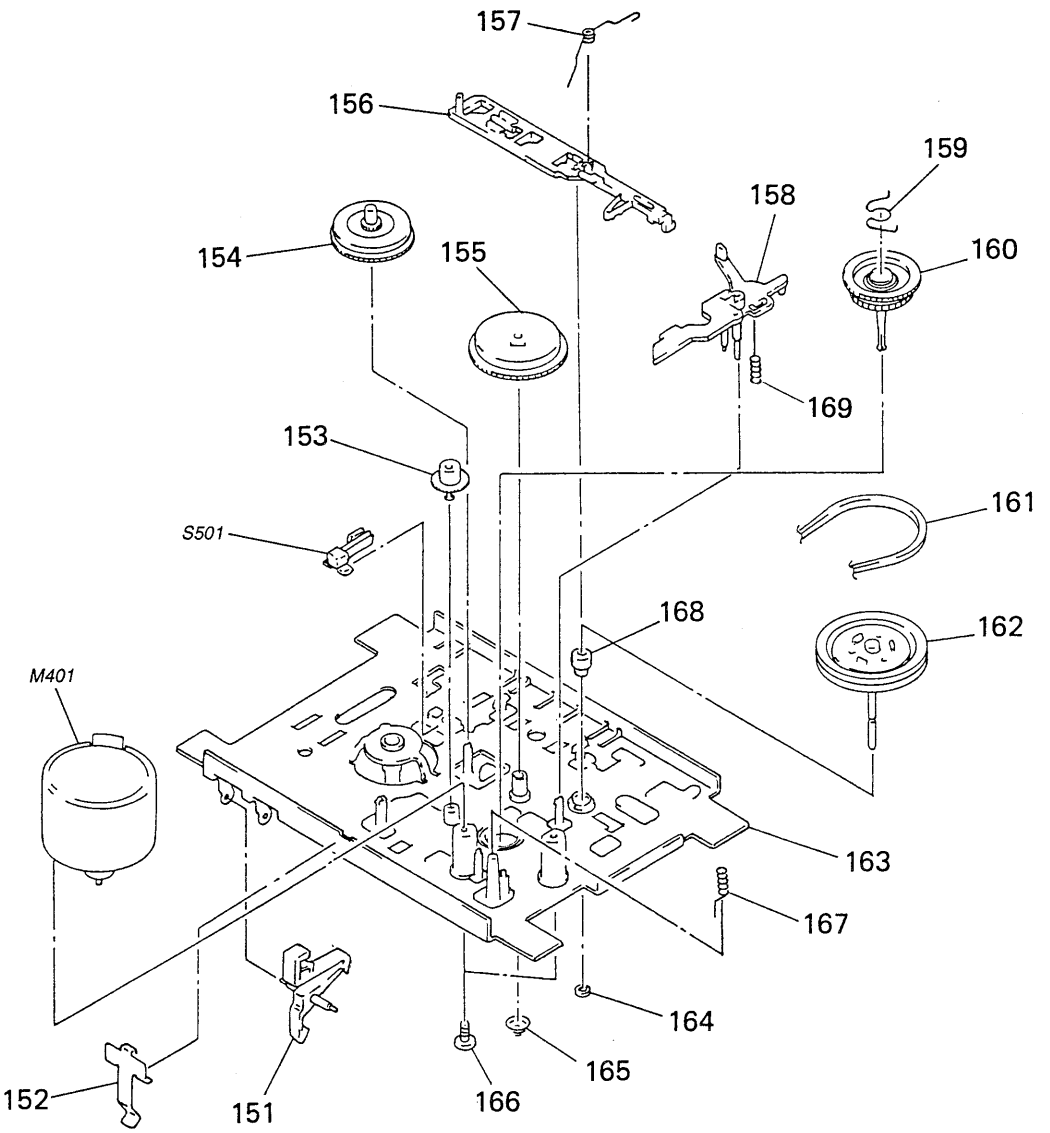
1. MECHANISM DECK SECTION (1)
(MF-1055-117)



Ref. No.	Part No.	Description	Remark
101	3-933-010-01	SPRING (S/P), TORSION	
102	3-933-025-01	SPRING (P), TORSION	
103	3-933-026-01	LEVER (P)	
104	3-933-024-01	ROLLER, PINCH	
105	3-933-019-01	SPRING (F/R), TORSION	
106	3-933-028-01	SPRING (FWD), TORSION	
107	3-933-016-01	GEAR (S REEL)	
108	3-933-023-01	SLIDER (REC)	
109	3-933-000-01	BASE (S), HEAD	
* 110	3-933-017-01	SLIDER (REW)	
* 111	3-933-018-01	SLIDER (FF)	
* 112	3-933-009-01	SLIDER (STOP)	
* 113	3-933-008-01	SLIDER (PAUSE)	
114	3-933-004-01	CLAW, REEL	
* 115	3-933-021-01	SLIDER (FRP)	
116	3-933-006-01	SLIDER (EJECT)	
117	3-934-833-01	SPRING (FRP)	
118	3-934-834-01	SPRING (BT)	
* 119	3-933-007-01	PLATE, LOCK	
HE901	1-543-876-11	HEAD (ERASE)	
HRP901	1-500-364-11	HEAD,MAGNETIC (RECORD/PLAYBACK)	

(Service Manual see page 23)

2. MECHANISM DECK SECTION (2)
(MF-1055-117)



Ref. No.	Part No.	Description	Remark
151	3-933-029-01	LEVER, ERASING PREVENTION	
152	3-933-182-01	SPRING, CASSETTE	
153	3-932-995-01	GEAR (MID)	
154	X-3371-667-1	CLUTCH ASSY	
155	3-932-997-01	GEAR (CAM)	
* 156	3-932-999-01	SLIDER (SW)	
157	3-932-998-01	SPRING (GROUND), TORSION	
158	3-932-996-01	LEVER (S.OFF)	
159	3-934-835-01	SPRING (S.OFF)	
160	X-3371-666-1	REEL ASSY, T	
161	3-933-020-01	BELT	

Ref. No.	Part No.	Description	Remark
162	X-3371-668-1	CAPSTAN ASSY	
163	3-932-993-01	CHASSIS, OUTSERT	
164	3-343-358-01	RING, RETAINING	
165	3-933-005-01	SPRING (CAM), COMPRESSION	
166	7-621-770-87	SCREW +B 2.6X5	
167	3-937-760-01	SPRING (GROUND), COMPRESSION	
168	3-934-336-01	BEARING	
169	3-939-383-01	SPRING, COMPRESSION	
M401	A-3304-619-A	MOTOR ASSY	
S501	1-762-679-11	SWITCH, LEAF (POWER)	

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